

RPB167Mu01 100µg
Recombinant Cluster Of Differentiation 4 (CD4)
Organism Species: Mus musculus (Mouse)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[**PROPERTIES**]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Lys27~Thr394

Tags: N-terminal His-Tag

Tissue Specificity: Breast, Brain.

Subcellular Location: Membrane; Single-pass type I membrane protein.

Purity: >95%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 7.6

Predicted Molecular Mass: 48.0kDa

Accurate Molecular Mass: 30&44kDa as determined by SDS-PAGE reducing conditions.

Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
2. Relative charge: The composition of amino acids may affects the charge of the protein.
3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
5. Polymerization of the target protein: Dimerization, multimerization etc.

[**USAGE**]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

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                                KTLV LGKEGESAEI PCESSQKKIT
VFTWKFS DQR KILGQH GKG V LIRGGSP SQF DRFDSKKGAW EGSFPLIIN
KLMEDSQTY ICELENRKEE VELWVFKVTF SPGTSLLQGG SLTLTLDNS
KVSNPLTECK HKKGKVVSGS KVLMSNLRV QDSDFWNCTV TLDQKKNWFG
MTLSVLGFQS TAITAYKSEG ESAEFSFPLN FAENGWGEL MWKAEKDSFF
QPWISFSIKN KEVSVQKSTK DLKLQLKETL PLTLKIPQVS LQFAGSGNLT
LTLDKGTLHQ EVNLVVMKVA QLNNTLTCEV MGPTSPKMRL TLKQENQEAR
VSEEQKV VQV VAPETGLWQC LLSEGDKVKM DSRIQVLSRG VNQT
    
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[IDENTIFICATION]

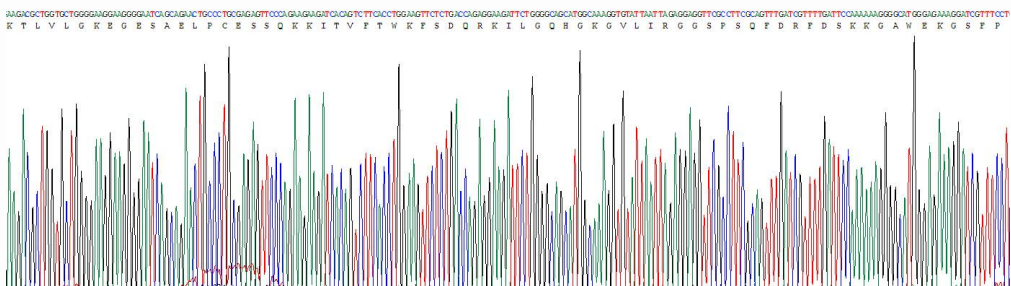


Figure 1. Gene Sequencing (Extract)

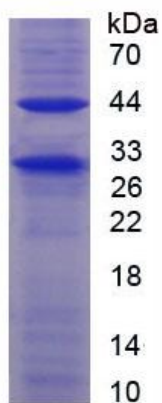


Figure 2. SDS-PAGE